

**Notice of Allowability**

Application No.

09/991,764

Examiner

Wen-Tai Lin

Applicant(s)

COURTNEY, MIKE

Art Unit

2154

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/24/2005.
2. ☒ The allowed claim(s) is/are 1, 5-6, 8-10, 21-22 and 24-27, renumbered as 1-12.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 4/7/02, 7/16/03, 3/5/04, 4/14/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### EXAMINER'S AMENDMENT

1. An examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable, an amendment may be filed as provided by 37 C.F.R. 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.
2. Authorization for the examiner's amendment was given in a telephone interview with Mr. Sean O'Dowd, reg. no. 53403, on November 7, 2005.
3. In the claims: please cancel claims 4, 15, 18-20 and 23 and amend claims 1, 10 and 21-22 to the following:
  1. (Currently Amended) A method for modeling a command structure of a particular network component, the method comprising:
    - accessing the particular a network component, wherein the particular network component is capable of facilitating communications in a network, wherein the network includes a plurality of network components;
    - retrieving a command set from the network component, the command set includes commands for configuring the particular network component, and wherein the commands for configuring the particular network components differ from other commands utilized for configuring other network components;

generating a representation of the retrieved command set, wherein the generated representation corresponds to the network component, and wherein the generating the representation includes:

generating a hash key corresponding to at least a portion of the retrieved command set; and

generating a hash object corresponding to the generated hash key, wherein the generated hash object includes metadata, the metadata including information that identifies the network component from among a plurality of network components; [[:]] and

storing the generated representation[[:]], wherein the step of generating a hash key comprises:

identifying a first level configuration command in the retrieved command set;

identifying a second level configuration command in the retrieved command set;

and

concatenating at least an indication of the first level command and at least an indication of the second level command.

10. (Currently Amended) A system for modeling command structures of network components comprising:

a configuration hash key storage module;

a configuration hash object storage module in communication with the configuration hash key storage module;

a configuration hash generator in communication with the configuration hash object storage module, wherein the configuration hash generator is configured to generate hash objects, which include metadata that identifies the network component from among a plurality of network components;

a configuration schema storage module in communication with the configuration hash generator; and

a configuration manager in communication with the configuration hash object storage module,

wherein the configuration manager includes:

a device-neutral configuration command generator; ~~and~~

a device-native configuration command generator ~~[[.]]; and~~

a hash object-driven graphical user interface.

21. (Currently Amended) A computer readable medium, which tangibly embodies a sequence of instructions executable by a machine, ~~computer program product~~ comprising:

a plurality of configuration command hash keys, each of the plurality of configuration command hash keys corresponding to at least one of a plurality of configuration commands;

a plurality of configuration command hash objects, wherein each of the plurality of configuration command hash objects corresponds to at least one of the plurality of configuration command hash keys;

wherein each of the plurality of configuration command hash objects comprises both schema data corresponding to at least one of the plurality of configuration commands and metadata that identifies a network component from among a plurality of network components[[]].

wherein the configuration command hash objects are accessible by a configuration manager, wherein the configuration manager includes:

a device-neutral configuration command generator;

a device-native configuration command generator; and

a hash object-driven graphical user interface.

22. (Currently Amended) An apparatus for modeling a command structure of a particular network component comprising:

means for accessing the particular network component, wherein the particular network component is capable of facilitating communications in a network, wherein the network includes a plurality of network components;

means for retrieving a command set from the network component, the command set includes commands for configuring the particular network component, and wherein the commands for configuring the particular network components differ from other commands utilized for configuring other network components;

means for generating a representation of the retrieved command set, wherein the generated representation corresponds to the network component, and wherein the means for generating the representation includes:

means for generating a representation of the retrieved command set, wherein the generated representation corresponds to the network component, and wherein the means for generating the representation includes:

means for generating a hash key corresponding to at least a portion of the retrieved command set; and

means for generating a hash object corresponding to the generated hash key, wherein the generated hash object includes metadata, the metadata including information that identifies the network component from among a plurality of network components; and

means for storing the generated representation[[.]],

wherein the means for generating a hash key comprises:

means for identifying a first level configuration command in the retrieved command set;

means for identifying a second level configuration command in the retrieved command set; and

means for concatenating at least an indication of the first level command and at least an indication of the second level command.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wen-Tai Lin whose telephone number is (571)272-3969. The examiner can normally be reached on Monday-Friday (8:00-5:00) .

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571)272-3964. The fax phone numbers for the organization where this application or proceeding is assigned are as follows:


(571)273-8300 for official communications; and

(571)273-3969 for status inquires draft communication.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wen-Tai Lin

November 7, 2005

  
11/7/05